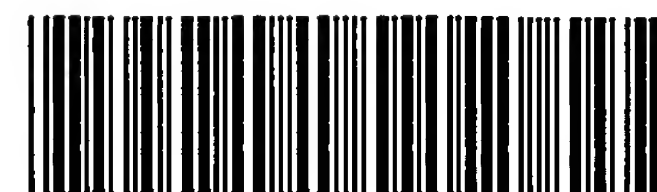


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/664,234 A  
Source: IFW16  
Date Processed by STIC: 08/31/2006

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 08/31/2006

PATENT APPLICATION: US/10/664,234A

TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

```

3 <110> APPLICANT: Ruan, Yijun
4      Patrick, Ng
5      Chialin, Wei
7 <120> TITLE OF INVENTION: Method for Gene Identification Signature (GIS) Analysis
9 <130> FILE REFERENCE: 3240-105
11 <140> CURRENT APPLICATION NUMBER: 10/664,234A
12 <141> CURRENT FILING DATE: 2003-09-17
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn version 3.3
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 33
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial
23 <220> FEATURE:
24 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (1)..(33)
30 <223> OTHER INFORMATION: n is a,c,g, or t
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1)..(33)
35 <223> OTHER INFORMATION: v is a,c,g
37 <400> SEQUENCE: 1
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41 <210> SEQ ID NO: 2
42 <211> LENGTH: 30
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial
46 <220> FEATURE:
47 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: (1)..(30)
53 <223> OTHER INFORMATION: n is a,t,c or g
55 <400> SEQUENCE: 2
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59 <210> SEQ ID NO: 3
60 <211> LENGTH: 20
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial
64 <220> FEATURE:

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65 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning vector

## RAW SEQUENCE LISTING

DATE: 08/31/2006

PATENT APPLICATION: US/10/664,234A

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Input Set : A:\3240-105.ST25.txt

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```

67 <400> SEQUENCE: 3
68 gtcggatcca agcggccgcg                                20
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 30
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial
76 <220> FEATURE:
77 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (1)..(30)
83 <223> OTHER INFORMATION: n is a,t,c or g
85 <400> SEQUENCE: 4
W--> 86 aattcgcggc cgcttggatc cgacgnnnnn                30
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 19
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
97 <400> SEQUENCE: 5
98 tcgacccagg atccaactt                                19
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 13
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)..(1)
113 <223> OTHER INFORMATION: phosphorylation
115 <400> SEQUENCE: 6
116 gttggatcct ggg                                    13
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 17
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
127 <400> SEQUENCE: 7
128 gtaaaacgac ggccagt                                17
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 19
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector

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139 <400> SEQUENCE: 8

## RAW SEQUENCE LISTING

DATE: 08/31/2006

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Input Set : A:\3240-105.ST25.txt

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```

140 ggaaacagct atgaccatg                                     19
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
151 <400> SEQUENCE: 9
152 taatacagact cactataggg                                     20
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
163 <400> SEQUENCE: 10
164 gatgtgctgc aaggcgatta ag                                   22
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 23
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
175 <400> SEQUENCE: 11
176 agcggataac aatttcacac agg                                   23
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180 <211> LENGTH: 48
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (1)..(48)
191 <223> OTHER INFORMATION: n is a,t,c or g
193 <400> SEQUENCE: 12
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197 <210> SEQ ID NO: 13
198 <211> LENGTH: 48
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)..(48)
209 <223> OTHER INFORMATION: n is a,t,c or g
211 <400> SEQUENCE: 13
W--> 212 gatccaactt nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnngtcg         48

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## RAW SEQUENCE LISTING

DATE: 08/31/2006

PATENT APPLICATION: US/10/664,234A

TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

```

215 <210> SEQ ID NO: 14
216 <211> LENGTH: 29
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
223 <400> SEQUENCE: 14
224 cgctctcctg taccgaccct gccgcttac 29
227 <210> SEQ ID NO: 15
228 <211> LENGTH: 29
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
235 <400> SEQUENCE: 15
236 aactatcgtc ttgagaccaa cccggtaag 29
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 24
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
246 vector
248 <400> SEQUENCE: 16
249 aattctcgag cggccgcgat atcg 24
252 <210> SEQ ID NO: 17
253 <211> LENGTH: 24
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
259 vector
261 <400> SEQUENCE: 17
262 gagctcgccg gcgctatagc ttaa 24
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 3404
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial
270 <220> FEATURE:
271 <223> OTHER INFORMATION: bacterial cloning vector
273 <400> SEQUENCE: 18
274 gggcgaattc tcgagcggcc gcggatccga cgagagcgcc tgcgtacggc tcgccgcggt 60
276 ggctggcgct acttcggagg agcccagcgc ggcgcggtcg tttttataca ttcccgcgcg 120
278 gaggcaacgg aagggcgggg cgcctcgtga ttaggccgcg gaggtcacag gctctgttgt 180
280 catgaaggtg aaaattaaat gttggaatgg tgtggccact tggctctggg tagccaatga 240
282 tgagaactgc ggcattctgca ggatggcggt taatggctgc tgtccagact gtaagggtgcc 300
284 tggatgatgac tgccccctcg tgtggggaca gtgctccac tgcttccaca tgcactgcat 360
286 cctcaagtgg ctgaatgcgc agcaggtgca gcagcactgc cccatgtgtc gccaggagtg 420
288 gaagttcaaa gagtgaagcc cgtgccgtgc cacttcctc tcctgtgctg tgccaggctc 480

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## RAW SEQUENCE LISTING

DATE: 08/31/2006

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TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

290	agcccccttcc	ctccctcccc	tccccccagat	acagcaccccc	aagtccccctc	cacacagcac	540
292	agtgggtgccc	agagatctcg	gtctgtgccc	gggacaagga	tgctttctgt	ttggctggga	600
294	caagggttgaa	aggagctttg	ctgactgttt	tgttttccca	tcacattgac	actttattca	660
296	ataagtaaaa	ctcattacag	ttccaagtcg	gatcctgggt	cgacctgcag	gcatgcaagc	720
298	ttgagtattc	tatagtgtca	cctaaatagc	ttggcgtaat	catggtcata	gctgtttcct	780
300	gtgtgaaatt	gttatccgct	cacaattcca	cacaacatac	gagccggaag	cataaagtgt	840
302	aaagcctggg	gtgcctaata	agtgagctaa	ctcacattaa	ttgcgttgcg	ctcactgccc	900
304	gctttccagt	cgggaaacct	gtcgtgccag	ctgcattaat	gaatcggcca	acgcgcgggg	960
306	agaggcggtt	tgcgtattgg	gcgctcttcc	gcttcctcgc	tcactgactc	gctgcgctcg	1020
308	gtcgttcggc	tgcggcgagc	ggtatcagct	cactcaaagg	cggtaatacg	gttatccaca	1080
310	gaatcagggg	ataacgcagg	aaagaacatg	tgagcaaaaag	gccagcaaaa	ggccaggaac	1140
312	cgtaaaaagg	ccgcgttgct	ggcgtttttc	gataggctcc	gccccctga	cgagcatcac	1200
314	aaaaatcgac	gctcaagtca	gaggtggcga	aacccgacag	gactataaag	ataccaggcg	1260
316	tttccccctg	gaagctccct	cgtgcgctct	cctgtaccga	ccctgccgct	taccggatac	1320
318	ctgtccgcct	ttctcccttc	gggaagcgtg	gcgctttctc	atagctcacg	ctgtaggtat	1380
320	ctcagttcgg	tgtaggtcgt	tcgctccaag	ctgggctgtg	tgcacgaacc	ccccgttcag	1440
322	cccgaccgct	gcgccttata	cggtaactat	cgtcttgaga	ccaacccggt	aagacacgac	1500
324	ttatcgccac	tggcagcagc	cactggtaac	aggattagca	gagcgaggta	tgtaggcggt	1560
326	gctacagagt	tcttgaagtg	gtggcctaac	tacggctaca	ctagaaggac	agtatttggt	1620
328	atctgcgctc	tgctgaagcc	agttaccttc	ggaaaaagag	ttggtagctc	ttgatccggc	1680
330	aaacaaacca	ccgctggtag	cgggtggtttt	tttgtttgca	agcagcagat	tacgcgcaga	1740
332	aaaaaaggat	ctcaagaaga	tcctttgatc	ttttctacgg	ggtctgacgc	tcagtggaac	1800
334	gaaaactcac	gttaagggat	tttgggtcatg	agattatcaa	aaaggatctt	cacctagatc	1860
336	ctttttaaatt	aaaaatgaag	ttttaaatca	atctaaagta	tatatgagta	aacttggtct	1920
338	gacagttacc	aatgcttaat	cagtgaggca	cctatctcag	cgatctgtct	atttcggtca	1980
340	tccatagttg	cctgactccc	cgctcgttag	ataactacga	tacgggaggg	cttaccatct	2040
342	ggccccagtg	ctgcaatgat	accgcgagac	ccacgctcac	cggctccaga	tttatcagca	2100
344	ataaaccagc	cagccggaag	ggccgagcgc	agaagtggtc	ctgcaacttt	atccgcctcc	2160
346	atccagtcta	ttaattgttg	ccgggaagct	agagtaagta	gttcgccagt	taatagtttg	2220
348	cgcaacgttg	ttggcattgc	tacaggcatc	gtgggtgtcac	gctcgtcggt	tggtagggct	2280
350	tcattcagct	ccggttccca	acgatcaagg	cgagttacat	gatcccccat	gttgtgcaaa	2340
352	aaagcggtta	gctccttcgg	tcctccgata	gttgtcagaa	gtaagtgggc	cgcagtgtta	2400
354	tcactcatgg	ttatggcagc	actgcataat	tctcttactg	tcatgccatc	cgtaagatgc	2460
356	ttttctgtga	ctgggtgagta	ctcaaccaag	tcattctgag	aatagtgtat	gcggcgaccg	2520
358	agttgctctt	gcccggcgct	aatacgggat	aataccgcgc	cacatagcag	aactttaaaa	2580
360	gtgctcatca	ttggaaaacg	ttcttcgggg	cgaaaactct	caaggatctt	accgctgttg	2640
362	agatccagtt	cgatgtaacc	cactcgtgca	cccaactgat	cttcagcatc	ttttactttc	2700
364	accagcgttt	ctgggtgagc	aaaaacagga	aggcaaaatg	ccgcaaaaaa	gggaataaag	2760
366	gcgacacgga	aatgttgaat	actcatactc	ttcctttttc	aatattattg	aagcatttat	2820
368	cagggttatt	gtctcatgag	cggatacata	tttgaatgta	tttagaaaaa	taaacaaata	2880
370	gggggttccgc	gcacatttcc	ccgaaaagtg	ccacctgacg	tctaagaaac	cattattatc	2940
372	atgacattaa	cctataaaaa	taggcgtatc	acgaggccct	ttcgtctcgc	gcgtttcggt	3000
374	gatgacgggtg	aaaacctctg	acacatgcag	ctcccggaga	cggtcacagc	ttgtctgtaa	3060
376	gcggatgccg	ggagcagaca	agcccgtcag	ggcgcgtcag	cgggtgttgg	cgggtgtcgg	3120
378	ggctggctta	actatgcggc	atcagagcag	attgtactga	gagtgcacca	tatgcggtgt	3180
380	gaaataccgc	acagatgcgt	aaggagaaaa	taccgcatca	ggcgccattc	gccattcagg	3240
382	ctgcgcaact	gttgggaagg	gcgatcgggtg	cgggcctctt	cgctattacg	ccagctggcg	3300
384	aaaggggggat	gtgctgcaag	gcgattaagt	tgggtaacgc	cagggttttc	ccagtcacga	3360
386	cgttgtaaaa	cgacggccag	tgaattgtaa	tacgactcac	tata		3404



RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006  
 TIME: 09:15:53

Input Set : A:\3240-105.ST25.txt  
 Output Set: N:\CRF4\08312006\J664234A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 33  
 Seq#:2; N Pos. 25,26,27,28,29,30  
 Seq#:4; N Pos. 26,27,28,29,30  
 Seq#:12; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28  
 Seq#:12; N Pos. 29,30,31,32,33,34,35,36,37,38,39,40,41,42  
 Seq#:13; N Pos. 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30  
 Seq#:13; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,28  
 Seq#:29

## VERIFICATION SUMMARY

DATE: 08/31/2006

PATENT APPLICATION: US/10/664,234A

TIME: 09:15:53

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0